

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

King Edward VII Memorial Hospital,

CSR Wing, Social Service Department,

Parel, Mumbai 400012

CSR-KEMH/Sealed Tender/543

date: 14/10/2024

Procurement through Sealed Tender.

Subject- To invite Sealed Tender from Original Equipment Manufacturer /Vendor / Distributor to supply CARDIAC STRESS TEST MACHINE WITH TREADMILL at for NUCLEAR MEDICINE DEPARTMENT of KEM Hospital through CSR Fund received in PBCF Dept of KEM Hospital.

King Edward Memorial Hospital is one of the leading tertiary care, public hospitals in the metropolis of Mumbai that provides basic as well as specialized services to needy patients from all over the country. With a glorious legacy of 96 years and currently catering to over 1.8 million out-patients and 85,000 in-patients annually, the institute is among the top ranked medical institutes in India. The CSR Wing of the Social Service Department has been working hard to raise funds to procure advanced medical equipment for various medical and surgical specialty and super specialty departments of KEM, with the objective of providing state of the art facilities to the underprivileged sections of our society.

Through CSR funds raised by the CSR Wing of the Social service department, we wish to purchase of **Cardiac Stress Test with Trade Mill to the Dept. of Nuclear Medicine at KEM Hospital.**

For purchase of the above equipment, it is proposed to invite “Sealed Tender” from Original Equipment Manufacturer /vendors / Distributor, to supply the same to KEM Hospital. To supply of Original Equipment Manufacturer /vendors / Distributor should purchase a form Poor Box Charity Fund, KEM Hospital from **14.10.2024 to 22.10.2024** in working hours a ball proposal with the required documents should be submitted on or before **22.10.2024 by 1.00 pm) in the CSR office, Room No. 65, Social Service Department, KEM Hospital, Parel, Mumbai 400012.** With Two Packet System (i.e. Packet A is an Administrative & Technical Documents & Packet B is a commercial) do not disclosed the price other than commercial packet. The packet will be open in front of CSR Committee as per schedule decided by committee.

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**Specifications for Cardiac Stress Test with Trade Mill
For Nuclear Medicine. Dept. of KEM Hospital**

	Description
Name of Equipment	Cardiac Stress Test with Trade Mill to the Dept. of Nuclear Medicine at KEM Hospital.
Specification of Equipment	<p>(A) Hardware Requirements</p> <ol style="list-style-type: none">1) The System must have dedicated PC with 2.4GHZ (Min) latest processor, Hard Disk (Min 1 TB), (Min 1GB RAM) with 3 Channels user configurable ECG display & alphanumeric data display, High Resolution TFT LCD flat screen display of Minimum 19 inch.2) Microsoft office should be provided with PC for generation of reports.3) The laser printer must have the capability to print instantaneously the printout of the ECGs.4) The system must support medical grade local treadmill. The local treadmill should be validated by the manufacturer for compatibility with stress test software. The treadmill should be CE certified. <p>(B) Clinical Application Software Requirements</p> <ol style="list-style-type: none">1) The system must have ability to<ol style="list-style-type: none">i. Simulate a stress test for quality assurance & trainingii. Facilitate both adult & pediatric patient population for rest & stress ECGiii. System should acquire signal acquisition from patient & analysis should also be performed at the patient itself in order to eliminate environmental noiseiv. View & analysis of real time simultaneous 3, 6, 12leads on screen during testv. Edit Final Reportvi. Various stress test protocols should be provided (e.g. Bruce and Modified Bruce) with protocols for pharmacological stress test (adenosine and dobutamine)vii. Permit user to customize protocolsviii. Customize user set upsix. System should have user defined report generation facility in different formats including ST/HR loops & ST/HR index for up to 12 leads formats for close diagnosis.x. Modify functional point, such as ST slope & level measurement point. Post-test medians re-measurement from J, post J point selections available.xi. System should have dynamic scan facility to display automatically the worst ECG lead, worst ST levelxii. Visualize notification for user defined parametersxiii. Value of METS (metabolic equivalent of task), max and min RPP (Rate Pressure Product) are displayed as standard featurexiv. Should have Sudden Cardiac Risk Tools available as per specifications

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	<p>developed and by the company and should be mentioned in the specifications</p> <p>xv. Provide raw 12 leads ECG strips of good quality at any time during stress test</p> <p>2) The system must</p> <p>i. Meet or exceed performance requirements of AAMI (Associations for the Advancement of Medical Instrumentation /US FDA/CE.</p> <p>ii. Provide in built filter algorithm for muscle artifact, baseline wander & low pass line frequency to eliminate any distortion in ST segment changes</p> <p>iii. Support outputs for TTL (Transistor Transistor Logic) pulse for QRS detection, a minimum of 3 user selectable analog outputs using any ECG lead, heart rate, treadmill speed, & grade</p> <p>iv. Have the ability to search for patient records based on name, medical record no & other patient demographics.</p> <p>v. System should print comprehensive final report on a minute by minute record of ST segment changes, ST segment trend plot and acceleration of ST-segment.</p> <p>vi. Colorful graphical display should clearly define the ST-T changes.</p> <p>vii. Support viewing of prior stress tests including the following information's: results, medications, history & diagnosis.</p> <p>3) The system should</p> <p>i. Have automatic arrhythmia detection, display & documentation module facility</p> <p>ii. Eliminate respiratory artifact & other artifacts like muscle, noise, A.C interference</p> <p>4) The system must provide</p> <p>i. On-line user Tutorial / manual with indexed hyperlinks</p> <p>ii. Multiple lead onscreen views</p> <p>iii. Ability to select which leads are displayed</p> <p>5) The system must support</p> <p>i. CD/DVD for patient record archive</p> <p>ii. Preferably password protection for operator access</p> <p>iii. Reporting Laser printer for A4 paper</p> <p>(C) Reporting Software</p> <p>i. The exam reports must be able to be emailed with no additional hardware or software</p> <p>ii. The system must be capable of</p> <p>a) Storing minimum 10,000 final reports & minimum 500 patient records</p> <p>b) Configurable to paperless documentation storage / archiving</p>
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	<p>iii. The exam reports must be saved in PDF format.</p> <p>iv. Microsoft office (Word, PowerPoint and Excel) software with valid license should provide with the computer for formatting of production of customized reports.</p> <p>v. The system must have the ability to keep beat to beat line storage & review final event report & in test 12 lead reports on screen.</p> <p>vi. The system must have the ability to customize reports.</p> <p>vii. The system should give tabular report by stage or by time</p> <p>a) S-T Level, S-T Slope, Heart Rate, Time, Date, Workload display, in METS</p> <p>b) Averaged beat summary of entire test</p> <p>c) Trends graph of S-T Level & S-T Slope on all 12 leads for entire length test</p> <p>viii. Should have Predictive Tools to predict sudden cardiac Arrest - risk stratification tool.</p> <p>ix. It should support automated ramped, staged or pharmacological protocols & should be able to do the stress interpretation</p> <p>(D) TREADMILL</p> <ol style="list-style-type: none">1. The treadmill should be fully integrated with the system software2. The treadmill should have digitally controlled AC Drive system ensuring a slow & safe start.3. The treadmill should deliver high torque for accurate speed control even at low speeds.4. Speed range: 0 to 13.5mph5. Grade Range: 0% to 22%6. User Weight Capacity: Up to min 200Kg7. Elevation Range should be 0 to 22 Degree continuously adjustable8. The local noise free programmable Treadmill should be provided as per AHA (American Heart Association) standard.9. Emergency Stop Button <p>(E) POWER SUPPLY</p> <ol style="list-style-type: none">1. For monitoring & treadmill 230V +/- 10%, 10,50 Hz +/- 3% with surge suppressor2. Suitable servo voltage stabilizer should be provided for complete system3. Online UPS for 30min backup should be provided for the operation of PC4. Storage Temperature: 0-60°C5. Humidity: 90% noncondensing6. Operating room Temp: 20- 40°C
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(F) WARRANTY & TECHNICAL SUPPORT

1. Three Years comprehensive warranty including all spares should be provided.
2. After three year's warranty, five years CMC (Comprehensive Maintenance Contract), on basic equipment, spares & the treadmill should be quoted and rates of CMC to be fixed as per BMC norms.
3. It should follow international standard & safety requirement. It must be **CE / US FDA approved with 510k certification.**
4. User's list with address & contact nos along with past performance certificates should be provided.
5. Demonstration compulsory
6. All standard accessories
7. One extra patient ECG cable should be supplied
8. Operating & details services manual should be supplied
9. Tropicalization:
 - a) Operating Room Temp: 20-40°C
 - b) Storage Room Temp: 30-60°C
 - c) Relative Humidity: upto 90% Non-condensing

1. General requirement -

- The equipment should have warranty of three years as described in the terms and condition document. The warranty and CMC shall cover the list of spare parts and the rate of which shall be valid for total 8 years (warranty 3 years and CMC 5 years) irrespective of whether those are treated as consumables or otherwise.
- After the warranty period is over, five years Comprehensive Maintenance contract (CMC) will have to entered into with the terms and conditions mentioned in the documents as per BMC norms. List of consumables will be submitted by supplier with cost freeze in advance for the warranty and CMC period
- It should be CE certificate by European notified body under MDD along with Declaration of Conformity or US FDA approval
- In case of CE (other/ general) following documents are required to be enclosed.
- Declaration of Conformity by manufacturer or EU representative of Manufacturer for the quoted model.

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	<ul style="list-style-type: none">• Documentary evidence regarding firm registered with EEA (European Economic Area) Competent authority is required.• Or European Representative registered with EEA (European Economic area) Competent authority appointed by firm is required.• Or Other documents like certificates from notified body along with declaration of conformity is required.• Users list with address and contract numbers and past performance certificate for the quoted model should be provided.• Demonstration of offered model is compulsory.• All the equipment, instrument offered should be supplied by the same manufactures principal• Power supply- 230 V\pm 10%,10.50 Hz \pm3%• Service Training to MEC Engineer and Operational training to user department should be provided.• Operating and detail service manual with circuit diagram should be provided.• Topicalizations:<ul style="list-style-type: none">Operation Temperature : 40°CStorage Temperature : 60°CRelative Humidity : Up to 90% non -Condensing
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General Conditions:

Warranty period	Comprehensive warranty on equipment and all spares shall be three years. Inclusion and exclusion of Warranty documents should be clearly stipulated.
CMC	<u>Comprehensive Maintenance Contract (CMC)</u> 1) After the warranty period is over, five years Comprehensive Maintenance Contract (CMC) will have to be entered into with the terms and conditions mentioned in the documents as per BMC norms. List of spare parts / consumables will be submitting by supplier with cost freeze in advance for the warranty and CMC period.

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	<p>2) The successful supplier must ensure that all the required spares/consumables and services are available during warranty and CMC period and 2 years after that, duly backed by the principal.</p>
<p><u>GENERAL REQUIREMENTS:</u></p>	<p>1) All items Price should include GST charges & any other charges. (Supplier needs to submit basic cost of equipment and GST rate in prescribed format).</p> <p>2) The above equipment shall be new and manufactured from virgin materials.</p> <p>3) It is mandatory to provide free installation & training for use of equipment.</p> <p>4) The equipment should have warranty of three years as described in the terms and condition document. The warranty and CMC shall cover the list of spare parts and the rate of which shall be valid for total 8 years (warranty 3 years and CMC 5 years) irrespective of whether those are treated as consumables or otherwise. (Mentioned as per Technical Specification)</p> <p>5) After the warranty period is over, five years Comprehensive Maintenance contract (CMC) will have to entered into with the terms and conditions mentioned in the documents as per BMC norms. List of spare parts / consumables will be submitted by supplier with cost freeze in advance for the warranty and CMC period</p> <p>6) Training to Medical Electronics Cell Engineers from servicing point of view and to user department from operating point of view is compulsory.</p> <p>7) Supplier should submit all technical details in the form of technical brochures / leaflets for all the equipment proposed for supply and mentioned in the technical offer.</p>
<p><u>Procedure for the opening of SEALED TENDER:</u></p>	<p>Packet-‘1’ (Administrative & Technical) will be opened in front of CSR Committee as per schedule decided by committee.</p> <p>Packet- ‘2’ (Commercial Packet) will be opened only if the administrative & technical offer is acceptable. In case the administrative and technical offer in</p>

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	<p>Packet '1' is found not acceptable or found incomplete, then Packet -'2' (Commercial Packet) will not be opened and offer will be kept out of consideration.</p> <p>The date and time of the opening of Commercial Packet will be intimated to the responsive bidder via mail. No complaint for non-receipt of such intimation will be entertained.</p>
<u>Delivery & Installation Period</u>	<ol style="list-style-type: none">1) Supplier should give free delivery at user department of KEM Hospital within 60 days from the date of receipt of purchase order.2) Installation and commissioning of equipment shall be done within 15 days from the delivery of the equipment.
<u>Payment Conditions</u>	<ol style="list-style-type: none">1) 80% payment will be made after the satisfactory supply & Installation of the equipment, submission of bills and submission of all required documents as per BMC norms.2) The balance 20 % payment will be released after satisfactory installation commissioning of the equipment. The Performance Certificate of equipment shall be issued by competent authority/ Concerned HOD of User department. Also user department shall obtain satisfactory inspection report from EE (MEC).
<p>All the above conditions should be strictly adhered to failing which the tender will be treated as non-responsive and no correspondence will be entertained in the matter.</p>	
<p>Necessary structural strengthening of site of installation shall be done through registered structural engineer appointed by bidder. Certificate to this effect shall be submitted after completion of work.</p>	

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The supplier should be submitting documents mention in check list attached herewith.

If any doubts or any query about above mentioned work, you can contact CSR Wing of the Social Service Department / Dept. of Nuclear Medicine at KEM Hospital., KEM Hospital, Parel, Mumbai - 400012.

**Sd/-
Head - CSR
GSMC & KEMH**

**Sd/-
HoD, Social Service Dept
GSMC & KEMH**

**Sd/-
HOD, Dept. of Nuclear Medicine.
GSMC & KEMH**

**Sd/-
Administrative Executive Officer
GSMC & KEMH**

**SD/-
Dy. Dean
GSMC & KEMH**

**SD/-
Dean
GSMC & KEMH**

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Check list of Documents to be submit with SEALED TENDER form as per the order given below.

Sr No	Administrative Documents	Sr. No.	Technical Documents
1	SEALED TENDER Form	1	Technical Offer
2	Tri party agreement	2	List of Consumables (Applicable in Warrenty & CMC Period)
3	SEALED TENDER Form Fee Receipt	3	Comparison of SEALED TENDER specification v/s Quoted equipment specification
4	Authorization Certificate.	4	Experience Certificate
5	Undertaking about CMC for 5 year after 3 year warranty period is over will be follows as per BMC norms	5	Past Performance Certificate of Quoted Equipment.
6	Signed copy of Terms & Condition of SEALED TENDER Document	6	Copy of valid CE certificate OR copy of valid USFDA approval as mentioned in General Conditions (Technical specifications).
7	Firm/Company/ Sanstha Registration Certificates	7	Technical brochure of quoted model
8	Partnership deed (If applicable)		
9	Pan Card with Photograph.(Only for Indian Bidder)		
10	GST Registration Certificate as applicable		
11	Import / Export license issued by competent authority(if applicable)		
12	Power of Attorney to sign the tender		
13	Irrevocable Undertaking		
14	Special Annexure for GST		